DERWENT-ACC-NO: 1994-270641

DERWENT-WEEK: 199433

TITLE: Sintered hard alloys used as cutting tools - contains tungsten carbide, titanium niobium **carbonitride or zirconium niobium carbonitride,** tungsten and cobalt

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PATENT-FAMILY:

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APPLICATION-DATA:

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ABSTRACTED-PUB-NO: RU 2007491C

BASIC-ABSTRACT:

These alloys contains (vol.%) : 38.2-64.5 WC, 21.5-38.2 of a refractory metal carbonitride (i.e., Nb), 1.3-3.4 W and Co the remainder. The alloys are novel in that the refractory metal carbonitride may be a Ti-Nb carbonitride having a compsn. corresponding to Ti1-xNBxC0.5 N0.5 or a **Zr-Nb carbonitride** having a compsn. corresponding to Zr1-xNbxCo0.5N0.5 where X = 0.2-0.3. Under these conditions, the ratio of the vol. contents of carbonitride to WC is 1:(1-3), and the same ratio for the W and carbonitride is equal to 0.06-0.09.

USE - Is used in cutting tool mfr.

ADVANTAGE - A sintered hard alloy is obtd. that has improved cutting durability.

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: L02 M26